

WHAT IS CLAIMED IS:

- 1           1.    An electrical shield, comprising:  
2                a body of moldable material, said body having a  
3                primary side and a secondary side, wherein a plurality of  
4                channels are formed on said primary side for receiving  
5                electrical cables therein; and  
6                an electrically conductive coating disposed at least  
7                on said secondary side, wherein said coating is operable in  
8                an electrically conductive relationship with a chassis in  
9                which said body of moldable material is operable to be  
10              disposed.
- 1           2.    The electrical shield of claim 1, wherein said  
2                electrically conductive coating is disposed on said primary  
3                side.
- 1           3.    The electrical shield of claim 1, wherein said  
2                secondary side comprises a substantially planar surface.
- 1           4.    The electrical shield of claim 3, further  
2                comprising a connector hole intersecting a select one of  
3                said plurality of channels and said substantially planar  
4                surface.

1           5.    The electrical shield of claim 4, further  
2    comprising a slot intersecting said substantially planar  
3    surface and said connector hole.

1           6.    The electrical shield of claim 5, wherein said  
2    slot comprises an ergonomically contoured hold.

1           7.    The electrical shield of claim 5, wherein said  
2    connector hole and said slot are operable to accommodate a  
3    connector associated with a select one of said electrical  
4    cables.

1           8.    The electrical shield of claim 3, wherein said  
2    body of moldable material comprises a structural plastic  
3    foam.

1           9.    The electrical shield of claim 3, wherein said  
2    coating comprises a metallic coating layer.

1           10.   The electrical shield of claim 9, wherein said  
2    metallic coating comprises a non-oxidizing copper layer.

1           11.   The electrical shield of claim 9, wherein said  
2    metallic coating is sprayed on said body of moldable  
3    material.

1           12. The electrical shield of claim 9, wherein said  
2 metallic coating comprises Spraylat 599-Y1371.

1           13. The electrical shield of claim 1, further  
2 comprising a contour intersecting a select one of said  
3 plurality of channels.

1           14. The electrical shield of claim 13, wherein said  
2 contour is operable to accommodate at least one ferrite  
3 core coupled to a select one of said electrical cables.

1           15. The electrical shield of claim 13, wherein said  
2 contour is disposed at a terminus of said select one of  
3 said plurality of channels.

1           16. The electrical shield of claim 1, wherein said  
2 chassis forms a portion of a telecommunications equipment  
3 rack.

1           17. A telecommunications equipment rack having  
2 electromagnetic interference compliance, comprising:

3           a backplane having a plurality of cables disposed  
4 thereon in a predetermined grooming pattern; and

5           a molding formed from a structural plastic foam body  
6 having a plurality of channels on one of its surfaces, said  
7 plurality of channels accommodating said plurality of  
8 cables,

9           wherein at least one of said surfaces of said body is  
10 coated with an electrically conductive material for  
11 providing an electrically conductive relationship with a  
12 chassis portion of said telecommunications equipment rack  
13 when said molding is attached to said backplane and  
14 disposed in said telecommunications equipment rack.

1           18. The telecommunications equipment rack of claim  
2 17, wherein said at least one of said surfaces of said body  
3 comprises a substantially planar surface.

1           19. The telecommunications equipment rack of claim  
2 18, further comprising a connector hole intersecting a  
3 select one of said plurality of channels and said  
4 substantially planar surface.

1           20. The telecommunications equipment rack of claim  
2 19, further comprising a slot intersecting said  
3 substantially planar surface and said connector hole.

1           21. The telecommunications equipment rack of claim  
2           20, wherein said slot comprises an ergonomically contoured  
3           hold.

1           22. The telecommunications equipment rack of claim  
2           20, wherein said connector hole and said slot are operable  
3           to accommodate a connector associated with a select one of  
4           said cables.

1           23. The telecommunications equipment rack of claim  
2           17, wherein said electrically conductive material is a non-  
3           oxidizing copper.

1           24. The telecommunications equipment rack of claim  
2           17, further comprising at least one ferrite core coupled to  
3           a select one of said cables.

1           25. The telecommunications equipment rack of claim  
2           24, further comprising a contour intersecting a select one  
3           of said plurality of channels, said contour operable to  
4           accommodate at least one of said ferrite cores coupled to  
5           a select one of said cables.

1           26. The telecommunications equipment rack of claim  
2           17, wherein said molding is attached to said backplane by  
3           a plurality of fasteners.

1           27. The telecommunications equipment rack of claim  
2   17, further comprising a conductive plate coupled to said  
3   electrically conductive material of said molding, wherein  
4   said conductive plate is operable in a conductive  
5   relationship with said chassis portion.

1           28. The telecommunications equipment rack of claim  
2   27, wherein said conductive plate is coupled to said  
3   molding by a plurality of gaskets.

1           29. The electrical shield of claim 28, wherein said  
2   gaskets are metallic compressible gaskets.

1           30. A method for providing electromagnetic  
2 interference shielding in an equipment rack having a  
3 backplane, comprising:

4           grooming a plurality of cables coupled to said  
5 backplane into a pattern;

6           molding a structural plastic foam body having a  
7 plurality of channels, said plurality of channels  
8 substantially conforming to said pattern so as to  
9 accommodate said plurality of cables therein;

10          coating said structural plastic foam body with an  
11 electrically conductive material; and

12          coupling said structural plastic foam body to said  
13 backplane such that an electrically conductive relationship  
14 is established between said electrically conductive  
15 material and a chassis forming a portion of said equipment  
16 rack.

1           31. The method as recited in claim 30, further  
2 comprising the step of interposing a conductive plate  
3 between said structural plastic foam body and said chassis.

1           32. The method as recited in claim 30, wherein said  
2 step of coating said structural plastic foam body is  
3 effectuated by spraying.

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1           33. The method as recited in claim 30, wherein said  
2   step of coating said structural plastic foam body is  
3   effectuated by depositing.